

Electromagnetic measurements of the ionosphere at the
ionospheric station of Rome

(Ninth interim report)

The project is a continuation of previous "EUROCAP PROGRAM" agreement with the European Research Office".

Continuous ionospheric vertical soundings (every hour, every day) have been performed at the ionospheric station of Rome during the period from November 95 to January 96.

The ionospheric station of Rome, one of most ancient in Europe, is usually equipped with a couple of Digisonde Bibl type 128, using sounding frequency range 1-20Mhz and 10KW of power pulse. However, due to the fact that we moved the station from the peripheral observatory of Rome Monte Porzio to a laboratory in the main building of ING, still in Rome, the sounder used actually is a Barry Research VOS1

Geographic coordinates: Lat 41.8 N Long. 12.5 E
Geomagnetic coordinates: Lat 42.1 N Long. 93.3 E
Time used: LT 15°E (UT + 1h)

Terminology and scaling method used conforms with that recommended in the URSI handbook of Ionogram Interpretation and Reduction, second ed. Nov. 1972 published by U.S. Department of Commerce, NOAA (editors W.R. Piggot and R. Rawer).

The hourly values of the standard ionospheric characteristics, coming from the scaled ionograms taken at the ionospheric station of Rome, concerning the period November 95 - January 96, have been digitized on diskette and mailed to Dr. F. Gorman of the U.S. Army.

The rough ionograms are kept at ING station and the copies will be available if necessary.

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